

US EPA ARCHIVE DOCUMENT

003450

DATE: August 12, 1978

SUBJECT: Registration No. 35317-1, Evaluation of Acute Dermal Toxicity.
Caswell No. 776

FROM: John Doherty, Toxicology Branch JD

TO: A.E. Costillo, Product Manager #34

Product: Sodium Hypochlorite

Registrant: Kuchne Chemical Company
Linden, N.J.

Remarks:

1. The dermal LD 50 is sufficient to classify the compound as a category III toxicant.

Review of acute dermal toxicity of sodium hypochlorite

WARF Institute, Inc., Madison Wisconsin
Study number 8021128, April 8, 1978.

20 New Zealand rabbits (10 male and 10 female) were prepared for this test by clipping the skin of the trunk free of hair. 5 males and 5 females were further prepared by abrading the skin with epidermal lesions. 20 gm of the test material was applied under a rubber sleeve closely fastened about the clipped trunk of the test animal. The material remained in place for 24 hours. The rabbits were observed for 14 days.

Results:

- a) Males: an LD 50 of > 20.0 gm/kg was determined because only 1 rabbit of 10 died.
- b) Females: an LD 50 of 20.0 gm/kg was determined because 5 of the 10 animals treated at this dose died.

Necropsy was performed on all animals, various incidences of internal hemorrhages resulted apparently due to application of the compound.

In all cases application of the compound gave severe (corrosive) skin damage.

This study is core minimum data

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